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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/164,630 10/01/98 CHEN

J 4006-003

EXAMINER

TM02/1101

DONALD C CASEY  
311 NORTH WASHINGTON STREET  
SUITE 100  
ALEXANDRIA VA 22314

VO.N

ART UNIT

PAPER NUMBER

2682

DATE MAILED:

11/01/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

*Supplemental*  
**Notice of Allowability**

Application No.

09/164,630

Examiner

Nguyen T Vo

Applicant(s)

CHEN, JINSAUN

Art Unit

2682

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to \_\_\_\_\_.
2. ☒ The allowed claim(s) is/are 1,2,20,24,25 and 32.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☒ including changes required by the proposed drawing correction filed 10/19/2000 and <sup>02/12/01</sup> which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)  | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                    | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____    |
| 5 <input type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. _____               | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment         |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8 <input type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9 <input type="checkbox"/> Other   |

#19/E

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Since claims 2, 20, 24-25 and 32 are new claims, they have been rewritten as shown below in order to be presented with underlining throughout the claims as required by 37 CFR 1.173(d).

Claim 2. A transmitter for a wireless transmitter-receiver system wherein the transmitter is coupled to audio equipment having an input terminal and an out put terminal to transmit an audio signal therefrom comprising:

an automatic audio level regulating circuit comprised of an audio regulating IC, having an input terminal adapted to be connected to the output terminal of said audio equipment to regulate the audio level of an output signal from said audio equipment to a predetermined range, and an output terminal;

a signal processing circuit having an input terminal connected to the output terminal of said automatic audio level regulating circuit, and an output terminal;

a dual adjustable oscillatory frequency regulating circuit comprising an oscillator transistor, and dielectric resonator, a first variable resistor, a second variable resistor and a variable capacitor diode, an input terminal connected to

12

the output terminal of said signal processing circuit, and an output terminal, a carrier frequency output being adjusted and set by said first and second variable resistors;

an inductance antenna connected to the output terminal of said dual adjustable oscillatory frequency regulating circuit, said inductance antenna being a matching device; and

a power control circuit controlled by the output signal of said audio equipment to provide the necessary working voltage to said transmitter, said power control circuit comprising a signal amplifier, a comparator and a transistor switch, so that when said signal amplifier receives an input signal from said audio equipment it drives said comparator and transistor switch permitting the connection of an external power supply or battery supply to said transmitter.

Claim 20. A receiver for a wireless transmitter-receiver system wherein the system transmitter includes an inductance antenna and is adapted to be coupled to audio equipment to transmit an audio signal therefrom through an inductance antenna comprising:

a receiving antenna adapted to receive an audio signal transmitted from the inductance antenna of said transmitter;

a dual adjustable oscillatory frequency regulating circuit comprising an oscillatory transistor, a dielectric resonator, and a first variable resistor, a second variable resistor, and a variable capacitor diode, an input terminal

13

connected to the output terminal of said receiving antenna, and an output terminal:

a signal processing circuit connected to said dual adjustable oscillatory frequency regulating circuit to process received signals and to provide a processed signal to said receiver;

an automatic 24-time frequency divider circuit comprising a resistor and an oscillator, connected to a first IC of said receiver signal processing circuit to divide the frequency of said received signal by 24, so as to provide a 19KHz three-dimensional demodulated signal;

and an auto-shut off circuit comprising a second IC and a transistor, said transistor being controlled by said second IC to turn a power supply on/off.

E2  
cancel.  
Claim <sup>4</sup>~~24~~. The receiver of claim <sup>3</sup>~~20~~ wherein said external and internal dual adjustable oscillatory frequency regulating circuit has a first intermediate frequency of at least above 10MhZ.

E3  
cancel.  
E4  
cancel.  
Claim <sup>5</sup>~~25~~. The receiver of claim <sup>3</sup>~~20~~ wherein said external and internal dual adjustable oscillatory frequency regulating circuit provides a local oscillatory frequency that can be broadly adjusted without a conventional SAW and which adjusts a first local oscillatory frequency and fixes a second oscillatory frequency.

E5  
cancel.  
Claim <sup>6</sup>~~32~~. The receiver of claim <sup>3</sup>~~20~~ wherein said auto-shutoff circuit can automatically turn on said receiver when it receives an audio signal and

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automatically turn off said receiver when it receives no audio signal after a  
predetermined period of time.

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nguyen T Vo whose telephone number is (703) 308-6728. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chang can be reached on (703)308-6739. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for all communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Nguyen Vo

October 30, 2001



**NGUYEN T. VO**  
**PRIMARY EXAMINER**